I was recently leading a team meeting in our office on a municipal bridge aid project that has some unique geometric challenges. We discussed several solutions for roadway alignments, bridge types, etc. when it occurred to me that another engineer in the office may have encountered a similar situation. Sure enough, this senior engineer had dealt with a somewhat similar situation and produced a set of plans from 1996 that provided excellent guidance for our current project. As the project discussion continued, and after checking a few dates, we realized that this set of plans was produced when the junior engineer on the team was in the fourth grade.

This conversation started me thinking about the next generation of engineers. Depending on where you are in your career, these engineers could be transitioning into an ownership in your firm, starting to manage projects, being mentored by you or in the case of a junior engineer still be in grade school. I wondered for the last group are we as a profession, or as SENH, doing enough to educate and encourage them to become structural engineers. This is hardly a new thought as it was being discussed when I was in college and more recently in the February issue of Structure Magazine.

In general, I think SENH does an excellent job with students who have already made the choice to be engineers. We annually hold a meeting at UNH, provide financial assistance in the form of scholarships and have made good progress in improving our communications with UNH and NHTI. For students in high school or earlier, we do not currently offer any outreach. There are fortunately many, many programs which do offer education and support for younger students nearly 50 of which can be found at the following site:

http://www.engineeringedu.com/competitions.html

I would be interested in our members thoughts on the next generation of structural engineers and what we as an organization could do to educate them about our profession.

2011-2012 SENH BOD Goals

For the upcoming SENH calendar year, the SENH Board has set three goals for the upcoming year which will be updated in each newsletter:

• Scholarship - Establish a dedicated fund for SENH scholarships. This was a goal from last year that needs additional research over the next year. This goal was discussed at the last Board of Directors meeting and it was agreed to solicit our membership for input. Specifically, should the fund be focused on scholarships or should it be broadened to encompass educational opportunities in general. The
broadened scope could include sponsorship of individuals for training, conferences, etc. that provide a benefit to structural engineers. Please contact any Board member if you have a preference.

• **Improved Record Keeping** - SENH has existed as a formal organization since 1995 and since that time a number of documents, email, etc has been generated. This goal includes central storage of past and future documents as well as policies for future record retention. **We have begun the process of digitizing past SENH records and begun research for web-based storage solutions.**

• **Finalize SENH Policies** - Over the past several years, the SENH Board of Directors have prepared and approved 15 policies to help guide the organization and improve continuity (see http://www.senh.org/by-laws#Policies). There are several additional policies in development that will be finalized over the next year so that all incomplete polices have been addressed. **The final two unfinished SENH polices are in draft form and will be completed by the end of this (meeting) year.**

I look forward to seeing you at our next meeting and if you have any questions or comments please feel free to contact me at (603) 669-5555 or mailto:President@senh.org.

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### Congratulations Linda McNair-Perry, P.E., SECB

2012 New Hampshire Engineer of the Year!

SENH is proud to announce that Linda McNair-Perry, P.E., SECB, has been selected as the 2012 recipient of the Joint Engineering Societies Engineer of the Year Award.

Linda has extensive structural engineering experience including buildings, bridges and specialty structures. She has served in numerous roles in SENH including 2 years as past president and continues to serve on the Professional Relations Committee and as our UNH Student Liaison. Linda also serves on the NH State Building Code Review Board, two Town study committees and is active in her local political party.

In support of Linda’s application for this award, the people that know her best had the following praise:

- “From a personal standpoint, it was very clear from the beginning that Linda had great passion and confidence in her ability to perform resulting in a consistent high quality product.”
- “Linda is well known and highly respected in our engineering and design community.”
- “For as long as I have known Linda she has shown a dedication to the engineering profession that extends to the safety of the people that come into contact with the work of engineers.”
- “Linda goes above and beyond expectations to reach out to the engineering students at UNH.”

The Engineer of the Year Award is the highest award given to individuals by the New Hampshire Engineering Societies and Linda has earned it. The award was presented at the NH Engineers Week Annual Banquet, February 16, 2012, at the Radisson Hotel, Manchester followed by a meeting with the Governor at a date to be determined.

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"Two roads diverged in a wood, and I -
I took the one less traveled by,
And that has made all the difference."

Robert Frost
New Members, Associate Members & Student Members

SENH welcomes the following new Members, Associate Members & Student Members:

**Members:**
◊ Wade Brown, P.E., Kleinfelder SEA
◊ Michael Croteau, P.E., Kleinfelder SEA
◊ David Dutil, P.E., Borrego Solar Systems, Inc.

**Associate Members:**
◊ Jon Downing, E.I.T., TF Moran, Inc.
◊ James Grant, E.I.T., JSN Associates, Inc.

**Student Member:**
◊ Lily Beyer Hoyle, Tanner & Associates, Inc.

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**Upcoming Presentation**

![Image of Covered Bridges]

**Covered Bridges: Inspection Design and Rehabilitation**
An overview of what makes these bridges special, how they are threatened, and how modern inspection and analysis is used to preserve them for future generations presented by Sean T. James, P.E.

2007 NH Young Engineer of the Year and Vice President at Hoyle Tanner Associates of Manchester

**Tuesday, February 21, 2012**
7:00PM
Library Living Room
NHTI, 31 College Drive, Concord NH

*Free to all students and to the public, Light refreshments will be served*
A raffle for ski tickets will also be held before and during the seminar. The winner will be chosen afterwards.
Any Questions contact AET Club President Njaya Joyce at njaya906@student.nh.edu

Attendance is free and you will receive 1 PDH for this presentation
MARCH MEETING ANNOUNCEMENT

NEXT MEETING: Tuesday, March 6, 2012

PRESENTATION: The main presentation speaker will be Mr. Robert Landry, Project Manager at NHDOT. Mr. Landry will be giving us a comprehensive overview of the Memorial Bridge Project in Portsmouth, NH. Eric Picard, a Graduate Student in the Civil Engineering Department, will also be giving a presentation titled “Accounting for the effect of temperature on the long-term strain monitoring system for in-service bridges.

The steel bridge team will be updating us on their progress for this year’s competition.

There will also be opportunities for student led tours of several of the civil engineering labs during the social hour.

PLACE: University of New Hampshire
Demeritt Hall, Room 112
Durham, NH

DIRECTIONS: NH Route 4 or 125 to the Lee Traffic Circle, continue on NH Route 4 east to Route 155A (Main Street). Take right onto Edgewood Rd and park in the visitor section of Lot H. (Before 6:00 it's $1/hour, and then after 6 most lots are available for free, unless they are designated as permit only.) See attached parking map.

AGENDA: 6:15 pm-6:30 pm Registration
6:30 pm-7:15 pm Social Hour and Dinner
7:15 pm-7:35 pm Business Meeting
7:35 pm-9:00 pm Presentation

DINNER: Pizza

COST: Member: $15.00 - Non-Member: $20.00
Student Member: FREE - Full Time Student: $5.00

RSVP: by Friday, March 2, 2012. There will be a $5.00 late fee for anyone wishing to RSVP past the Friday, March 2, 2012 date.

Please send check payable to “Structural Engineers of New Hampshire” with list of attendees to:

Hoyle, Tanner & Associates, Inc.
Attn. Deb Coon
150 Dow Street
Manchester, NH 03101
Contact: Deb Coon, Administrative Assistant
dcoon@hoyletanner.com

NOTE: 2.0 PDHs have been assigned for attendance to this program. Attendees are responsible for ensuring their check-in on the attendance list upon arrival at the meeting.
SENH President Sean James, P.E. began the meeting with a discussion of current business.

1. A raffle was held during the meeting for a pair of ski passes for the Gunstock Mountain Resort. The passes were donated by Bob Durfee, P.E. and all proceeds will be used towards the SENH scholarships.

2. SENH Treasurer, Kyle Roy provided an overview of the current SENH budget. The 2012 budget has been approved by the Board of Directors and will be emailed to the membership in the near future.

3. SENH is considering formation of a dedicated fund to provide assistance with scholarships and other educational opportunities. More details will be provided soon to the membership for their input.

Business Portion of the Meeting

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3. SENH is considering formation of a dedicated fund to provide assistance with scholarships and other educational opportunities. More details will be provided soon to the membership for their input.

Presentations

Mark Richardson, P.E., NHDOT Bridge Design Bureau Administrator, began the meeting with an overview of recent key bridge projects in the state. The overview included a discussion of the Memorial and Sarah Long bridges in Portsmouth as well as in-place repairs of deteriorated steel stringers completed by NHDOT bridge maintenance.

John Kim, P.E., a Senior Bridge Design Engineer with Parsons Brinckerhoff made the second presentation of the evening on the use of Thermoplastic bridges. The presentation began with an overview of the source of materials (recycling) for the bridges as well as the material properties. Several completed projects were discussed in detail including the use of the material for a railroad bridge serving an active rail line.

Respectfully submitted,
Sean James, P.E.
UNH 2012 Fall Career & Internship Fair by Linda McNair-Perry, P.E., SEBC—SENH-UNH Liaison

The UNH Spring 2012 Career & Internship Fair will be held on Tuesday March 6th. I will be representing SENH at the fair to chat, encourage, listen, and mentor the students. This year the fair, which is from noon to 4 in the Memorial Union Building, is the same day as the SENH meeting that is also being held at UNH.

I STRONGLY encourage one or more of you to join me for this chance to interact one-on-one with the students. I also usually get to have enlightening conversations with the firms that are there to do the hiring of the students and a professor or two will often stop by. There is a ton of positive energy in the room.

If you know of any positions that you are looking to fill with energetic recent grads or summer interns, please let me know in advance so that I can share that information with the students. Otherwise, I will gather the students’ resumes so that they can be shared with interested SENH members at a later date.

I can be reached at lperry@sfceng.com or 603-647-8700 x 232.

Updates from UNH, by Anabelle Allen, President, UNH ASCE

Steel Bridge Team
Regional Competition March 31st at UMass Amherst

As time runs down and the regional competition is getting closer, the UNH Steel Bridge Team is really feeling the heat. They are well into the fabrication of the bridge, learning how to weld, and spending long days in the shop trying to meet their fabrication deadline set for the end of the month. They have dedicated many hours to the design and are now fabricating the various elements the bridge. The five seniors are working towards their Senior Project requirements, while at the same time they are involving the underclassmen on the team. This is important so that next year’s team will have the skills and knowledge to fabricate their bridge when it comes time for them.

A UNH Steel Bridge Team Fundraiser will be held on Tuesday, February 21 at Portsmouth, New Hampshire’s Flatbread Company located at 138 Congress Street. A portion of the restaurant’s proceeds for the night are being donated to the Steel Bridge team. This event offers a unique opportunity to learn about the University’s prestigious civil engineering program as well as the exciting competition in which it participates each year.

While benefiting from the sale of Flatbread’s delicious and aromatic flatbread pizza and organic salads, the fundraiser also includes a raffle for items such as J. Cole concert tickets, UNH hockey tickets, candy baskets, and a variety of other prizes.

We would like to invite the SENH members to join us for the evening’s food and comradery. If you cannot join us, you can still help the UNH Steel Bridge Team by donating tickets, gift certificates, items or services for the raffle. You can donate up until the morning of the event. Please contact me, Anabelle at alw485@unh.edu, with any questions or donations.
Concrete Canoe Regional Competition
UNH hosting this year’s regional conference April 20th and 21st

This spring UNH is hosting the 2012 New England Regional Concrete Canoe Conference the weekend of April 20-21. The board members of the UNH chapter of ASCE have been hard at work since September planning this event. Schools from around New England will congregate at UNH the afternoon of Friday, April 20th for presentations on campus. On the morning of the 21st almost 200 students will gather at Ayer’s Lake Campground in Barrington, NH for the day of races. We have 6 generous fellows that have volunteered to judge the competition for us. We’re hoping that winter will not come late this year and we will have great weather and plenty of paddling depth for the canoe teams. After the fun filled races, the teams will come back to the UNH campus for dinner and a short awards ceremony and a speaker from ASCE. We’re striving to have a smooth and exhilarating competition that will be both enjoyable for the teams and a great experience for UNH.
Our Sponsors

Employment Opportunities

**SENIOR HIGHWAY PROJECT MANAGER**
Seeking an energetic individual experienced in developing highway projects, design and traffic projects in New Hampshire. Experience should include developing projects for NH DOT, NH municipalities and regional Planning Commissions. Qualified candidates must possess a NH P.E. license and ideally will have 10+ years of experience. Candidates will be required to manage the development of projects, interface with clients and direct a staff of junior engineers and technicians. Location: Bedford or Laconia, NH. Competitive salary, excellent fringe benefit program, ESOP Company.

**BRIDGE ENGINEER**
A Bridge Engineer with a minimum of 8-10 years experience is needed for our busy and growing Bridge Engineering Group. Duties include the evaluation, planning, design and construction administration of Federal, D.O.T. and municipal bridge projects and programs. Bridge Design Team Management/Leadership experience and client relationship and business development experience desired. Bachelor's of Science Degree in Civil Engineering (BSCE) required, Master's Degree (MS or MCE) a plus. Experience with AutoCAD and/or MicroStation desired. Experience with AASHTO standards required, experience with NH DOT and VTrans standards a plus. VT/VTNH P.E. required or ability to obtain. Location: Bedford or Laconia, NH. Competitive salary, excellent fringe benefit program, ESOP Company.

Visit our website at [http://www.dubois-king.com](http://www.dubois-king.com). Send resume to: DuBois & King, Inc., P.O. Box 839, Randolph, Vermont 05060. Fax: 802.728.4930 Email: HumanResources@dubois-king.com -EEO-
University of New Hampshire
Parking Map

AS AMENDED, JULY 2011

Minutes Walking

Visitor Parking (on-site permitting)
Admissions & Visitor Parking (on-site permitting)
Faculty/Staff
Faculty/Staff & Commuter Permits
Commuter
Resident
Resident West & Commuter Permits
Faculty/Staff, Commuter, and Resident West Permits

Access parking in all lots except:
A, West Edge, and Mast Road Lots.

Recommended Short Term Visitor > 21 hrs
Short Term Metered < 2 hrs
Motorcycle / Motored
Carpool
UNH Transit Stop
Train
InterCity Bus

PRINTED ON RECYCLED STOCK
KEY TO PARKING LOTS

**Commuters Only Lots**—Commuter permit required. Commuter permits are sold to qualified students who live one mile or more off campus.

<table>
<thead>
<tr>
<th>Lot</th>
<th>Number</th>
</tr>
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<tbody>
<tr>
<td>G1 Lot</td>
<td>D10</td>
</tr>
<tr>
<td>M Lot</td>
<td>D12</td>
</tr>
<tr>
<td>Mast Lot 2</td>
<td>C8</td>
</tr>
</tbody>
</table>

**Faculty/Staff Lots**—F/S permit required. Faculty/Staff permits are sold to qualified employees of UNH. Valid Service, Vendor, Trustee, Emeritus, and Volunteer permits are also good in these lots.

<table>
<thead>
<tr>
<th>Lot</th>
<th>Number</th>
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</thead>
<tbody>
<tr>
<td>B Lot</td>
<td>K15</td>
</tr>
<tr>
<td>Barton</td>
<td>C11</td>
</tr>
<tr>
<td>Batchelor Lot</td>
<td>H17</td>
</tr>
<tr>
<td>Brook Way</td>
<td>F16</td>
</tr>
<tr>
<td>D Lot</td>
<td>E15</td>
</tr>
<tr>
<td>F Lot</td>
<td>J12</td>
</tr>
<tr>
<td>Field House East</td>
<td>G12</td>
</tr>
<tr>
<td>Field House West</td>
<td>E11</td>
</tr>
<tr>
<td>G Lot</td>
<td>D11</td>
</tr>
<tr>
<td>H Lot</td>
<td>F14</td>
</tr>
<tr>
<td>J Lot</td>
<td>H15</td>
</tr>
<tr>
<td>Leavitt Lane 1 and 2</td>
<td>C3</td>
</tr>
<tr>
<td>N Lot</td>
<td>N13</td>
</tr>
<tr>
<td>P Lot</td>
<td>J14</td>
</tr>
<tr>
<td>U Lot</td>
<td>G16</td>
</tr>
<tr>
<td>Stratford Lot</td>
<td>E17</td>
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</tbody>
</table>

**Resident Lots**—lot-specific permits required. Resident permits are sold to qualified students living in campus resident halls or campus apartment housing.

<table>
<thead>
<tr>
<th>Lot</th>
<th>Number</th>
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<tbody>
<tr>
<td>E Lot</td>
<td>L14</td>
</tr>
<tr>
<td>Gables</td>
<td>A13</td>
</tr>
<tr>
<td>E1 Lot</td>
<td>L13</td>
</tr>
<tr>
<td>Woodside</td>
<td>D14</td>
</tr>
</tbody>
</table>

**Mixed Use Lots**—appropriate permit required. These lots offer parking to multiple permit type holders, as indicated.

<table>
<thead>
<tr>
<th>Lot</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Lot (commuters &amp; fac/staff)</td>
<td>D12</td>
</tr>
<tr>
<td>S Lot (commuters &amp; fac/staff)</td>
<td>D4</td>
</tr>
<tr>
<td>Mast Road Lot 1 (commuters &amp; res west)</td>
<td>B9</td>
</tr>
<tr>
<td>West Edge Lot (commuters, res west, fac/staff)</td>
<td>D3</td>
</tr>
</tbody>
</table>

**Visitor, Meter, Short Term and Specialized Lots**

These lots have special permit/meter requirements and/or limited use.

<table>
<thead>
<tr>
<th>Lot</th>
<th>Number</th>
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</thead>
<tbody>
<tr>
<td>C Lot</td>
<td>J17</td>
</tr>
<tr>
<td>Congreve Lot</td>
<td>G15</td>
</tr>
<tr>
<td>Main Street Visitor</td>
<td>G14</td>
</tr>
<tr>
<td>Z Lot</td>
<td>F13</td>
</tr>
<tr>
<td>Visitor Center Lot</td>
<td>H15</td>
</tr>
</tbody>
</table>

Some smaller lots and buildings not listed. See map on reverse side.

**KEY TO BUILDINGS**

- Adams Tower: F16
- Admissions/Smith: G16
- Alexander: J18
- Alumni Center, Elliott: E15
- Amtrak Station: E13
- Babcock: K15
- Barton: C11
- Christensen: L14
- Cole: C11
- Conant: H14
- Congreve: G15
- Craft: G16
- Dairy Bar: F13
- Demeritt: H14
- Devine: J16
- Eaton: L12
- Elizabeth Demeritt: G18
- Englehardt: J17
- Equine Center: C8
- Fairchild: H17
- Farm Services: B10
- Field House: F12
- Figment: B2
- Forest Park: J13
- Gables, The: B12
- Garage: C5
- Gibbs: K16
- Greenhouses: D11
- Gregg: I11
- Grounds & Roads: K11
- Hall: L13
- Hamilton Smith: H16
- Health Services: H17
- Heating Plant: H13
- Hersey: G17
- Hertzl: I18
- Hewitt: H13
- Hitchcock: J16
- Holloway Commons: I17
- Hood House: I16
- Horse Barn: C10
- Horton: J15
- Hubbard: K14
- Huddleston: H17
- Human Resources: B3
- Hunter: K17
- James: G14
- Janetos: H17
- Jessie Doe: F16
- Kendall: G13
- Kingsbury: I14
- Leavitt Center: C3
- Library, Dimond: H14
- Lord: F15
- Marston: L12
- Mathes: C7
- McConnell: J15
- McLaughlin: F15
- Memorial Union (MUB): I16
- Mills: I17
- Moiles: D9
- Morrill: G14
- Morse: I13
- Murkland: H14
- Nesmith: F13
- New Eng. Conf Ctr.: F17
- Ocean Engineering: H11
- Parsons: J14
- Paul Creative Arts: I14
- Pettie Hall: G13
- Philbrook: K13
- President's House: H16
- Putnam: D11
- Randall: J16
- Rice: H17
- Richardson: L12
- Ritzman: H11
- Robinson: H18
- Rudman: H13
- Sawyer: G16
- Scott: G15
- SERC: J12
- Service: H13
- Smith: G16
- Smith/Admissions: G16
- Spaulding: I14
- Stillings: F16
- Poke: G17
- Taylor: G13
- Telecom: H13
- Thompson: H15
- Visitor Center: D12
- Whittemore Center: E14
- Williamson: L13
- Wolff: H17
- Woodside: D14
- Zais: H13
Mark Your Calendars for the Upcoming Dates of Future SENH Meeting:

Tuesday, May 08, 2012

Board of Directors

President       Sean James, P.E.
Vice President  Josh Lund, P.E., SECB
Secretary       Normand Cote, P.E., SECB
Treasurer       Kyle Roy, P.E.
Director at Large Tony Coviello, P.E.